AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) An apparatus for detecting a position of a wheel tilting angle adjustment member, comprising: a table on which a wheel mounted on a vehicle is seated through the wheel tilting angle adjustment member for adjusting a tilting angle of the wheel, the table being freely moveable in the horizontal direction; table position detection means for detecting a position in [[a]] the horizontal direction of the table; and adjusting member position calculating means for calculating the position of the wheel tilting angle adjustment member coupled to the wheel seated on the table on the basis of the detected position in the horizontal direction of the table.
- 2. (Original) An apparatus for detecting a position of a wheel tilting angle adjustment member according to claim 1, comprising storage means in which relative position information on the wheel tilting angle adjustment member with respect to the wheel is stored, the relative position information being previously set for each vehicle type, wherein the adjusting member position calculating means calculates the position in the horizontal direction of the wheel seated on the table which is detected by a table position detection sensor, and the adjusting member position calculating means calculates the position of the wheel tilting angle adjustment member on the basis of the calculated position in the horizontal direction of the wheel and the relative position information stored in the storage means.
- (Original) An apparatus for detecting a position of a wheel tilting angle adjustment member according to claim 1, comprising storage means in which relative

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position information on the wheel tilting angle adjustment member with respect to the wheel in a state in which the wheel is seated on the table is stored, the relative position information being previously set for each vehicle type, wherein the adjusting member position calculating means calculates the position of the wheel tilting angle adjustment member on the basis of the position in the horizontal direction of the table which is detected by the table position detection means and the relative position information stored in the storage means.

- 4. (Original) An apparatus for detecting a position of a wheel tilting angle adjustment member according to claim 2 or 3, wherein the pieces of relative position information are stored in the storage means corresponding to a plurality of vehicle types respectively, and the adjusting member position calculating means calculates the position of the wheel tilting angle adjustment member on the basis of the relative position information in accordance with the vehicle type on the table.
- 5. (Previously Presented) An apparatus for detecting a position of a wheel tilting angle adjustment member according to claim 1, wherein the wheel tilting angle adjustment member is a tie rod.
- 6. (Currently Amended) A method for detecting a position of a wheel tilting angle adjustment member without visual observation by the operator, wherein a position of a wheel mounted on a vehicle is detected through the wheel tilting angle adjustment member which adjusts a tilting angle of the wheel, and the position of the wheel tilting angle adjustment member is calculated on the basis of the detected wheel

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position and relative position information of the wheel tilting angle adjustment member

with respect to the wheel, the relative position information being previously set for each

vehicle type.

7. (Withdrawn) An axle-shaped work adjustment apparatus, comprising: an

open-end wrench which has an insertion groove into which an axle-shaped work is

inserted in a radial direction at a front end portion, a part of or the whole of the insertion

groove being formed by an engagement groove engaged with a tool engagement

portion of the axle-shaped work which is formed in a rotating member journaled in the

front end portion while freely rotated, the open-end wrench normally and reversely

rotating the axle-shaped work by normally and reversely rotating the rotating member

while the tool engagement portion is engaged with the engagement groove; detection

means for detecting whether or not the objects are present near both ends of a bottom

surface of the insertion groove respectively; a drive mechanism which can drive the

open-end wrench so that an angle of a rotating axial line of the rotating unit of the open-

end wrench is changed with respect to an axial line of the axle-shaped work while the

axle-shaped work is inserted in the insertion groove; and drive mechanism controlling

means for controlling the drive mechanism to cause the rotating axial line of the rotating

unit to coincide with the axial line of the axle-shaped work so that the detection means

detects the presence of the axle-shaped work near both the ends of the bottom surface

of the insertion groove when the axle-shaped work is inserted into the insertion groove.

8. (Withdrawn) An axle-shaped work adjustment apparatus according to

claim 7, wherein the drive mechanism is configured to be capable of rotating the open-

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end wrench about the axial line in a longitudinal direction of the open-end wrench and

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be capable of tilting the open-end wrench in a predetermined direction.

9. (Withdrawn) An axle-shaped work adjustment apparatus according to

claim 7 or 8, wherein the axle-shaped work is a tie rod built in a steering mechanism of

an automobile.

10. (Withdrawn) An axle-shaped work setting method in which the axle-

shaped work is set in an open-end wrench which has an insertion groove into which the

axle-shaped work is inserted in a radial direction at a front end portion, a part of or the

whole of the insertion groove being formed by an engagement groove engaged with a

tool engagement portion of the axle-shaped work which is formed in a rotating member

journaled in the front end portion while freely rotated, the open-end wrench normally

and reversely rotating the axle-shaped work by normally and reversely rotating the

rotating member while the tool engagement portion is engaged with the engagement

groove, the method comprising: detecting whether or not the tool engagement portion is

present near an end portion of a bottom surface of the engagement groove in both the

ends of the bottom surface; and driving the open-end wrench on the basis of the

detection result to cause the rotating axial line of the rotating unit to coincide with the

axial line of the axle-shaped work.

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